

# 29th Annual Meeting of **The Eastern Neuroradiological Society**

## August 24 - 27, 2017

Toronto Marriott Downtown Eaton Centre Hotel Toronto, Ontario, CANADA

SAM Credit Available 27.0 AMA PRA Category 1 Credit(s)<sup>™</sup>

For more information, visit www.enrs.org



## From The Program Chair

On behalf of the Eastern Neuroradiological Society, I would like to extend a warm personal invitation to join us for the 29th Annual ENRS Meeting that is taking place on August 24-27, 2017, in Toronto, Ontario, CANADA.

This year's meeting will cover all of the various aspects of neuroimaging. Core sessions include comprehensive but also practical and relevant sessions on brain, advanced imaging techniques, stroke, pediatric, ENT and neurointerventional imaging. A new Emergency Neuroimaging session is also included in this year's program. A total of four Self-Assessment Module (SAM) sessions are interspersed throughout the meeting. There will be three scientific presentation sessions this year that will culminate with the presentation of the Norman E. Leeds and Stephen A. Kieffer awards. The always popular Stump the Stars session will also be held prior to the annual gala dinner. As in years past, the Program Committee has brought together a diverse group of moderators and speakers for the

meeting. While there are numerous international and nationally recognized speakers on the program, this year, the Committee has endeavored to include many new junior faculty and first-time speakers to be a part of the proceedings.

The meeting will be held in downtown Toronto at the Marriott Eaton Centre Hotel. Toronto is located on the shores of Lake Ontario and is the largest city in Canada and the fourth largest in North America. It is a cosmopolitan, ethnically and culturally diverse city that is a major centre for international business and finance. The weather during August will be excellent and the city offers numerous activities and that would be of interest for the whole family. There are several cultural attractions such as the Royal Ontario Museum, the Art Gallery of Ontario and the Hockey Hall of Fame. A number of theatre and live performance venues are all situated downtown including Roy Thomson Hall, Massey Hall, the Four Seasons Centre for the Performing Arts, the Elgin and Winter Garden and the Princess of Wales Theatres. The Canadian National Exhibition will also be in full swing during the meeting and the Toronto Blue Jays baseball team will also be in town for a weekend series. The city is also home to world-class shopping with the conference hotel situated literally steps away from the Eaton Centre shopping mall that is home to over 250 stores. Numerous culturally diverse restaurants are also located downtown and are within walking distance of the hotel.

In the tradition of past years, we are looking forward to starting the 29th Annual Meeting with a Welcome Reception on Thursday evening followed by the Annual Gala Dinner on Saturday. This meeting has by tradition been a family oriented and casual event that offers the opportunity to meet and network with colleagues new and old. This year's meeting will aim to continue and build upon that tradition.

In closing, I would like to sincerely thank and acknowledge the hard work and support of the ENRS Executive Committee, the amazingly organized Program Committee and the dedicated and hardworking managers and staff from Educational Symposia. This meeting would not have been possible without all of their efforts and support.

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 Eugene Yu, M.D., FRCPC ENRS President Elect and Program Chair

## **Target Audience**

The ENRS 29th Annual Meeting is targeted to academic and private practice neuroradiologists in the Northeastern United States and Canada who have an interest and background in the diseases of the central and peripheral nervous system, brain, spine, otolaryngology, and neurointervention in both adults and children, and the meeting is equally targeted to physicians-in-training including residents and fellows who are pursuing radiology.

## Accreditation

**Physicians:** This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint providership of Educational Symposia and the Eastern Neuroradiological Society. Educational Symposia is accredited by the ACCME to provide continuing medical education for physicians.

Educational Symposia designates this live activity for a maximum of 27.0 *AMA PRA Category 1 Credit(s)*<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Self-Assessment Modules (SAMs):** Educational Symposia has been granted Deemed Status by the American Board of Radiology (ABR). This allows Educational Symposia to develop and implement SAMs that satisfy ABR Part II MOC requirements.

## **Educational Objectives**

At the conclusion of the meeting, the participant should be able to:

- Understand the clinical and imaging features of common CNS infections.
- Identify the radiologic anatomy of the skull base, temporal bone and pituitary fossa.
- Review the principles and applications of advanced imaging techniques: perfusion, fMRI, diffusion tractography and MR spectroscopy in the evaluation of CNS disease.
- Evaluate emergent conditions of the brain, spine and extracranial head and neck.
- Describe the common neoplasms that affect the brain and their mimics.
- Understand the anatomy of the paranasal sinuses and the principles behind functional endoscopic sinus surgery (FESS).
- Learn the basics of vessel wall imaging and how to apply its use in routine clinical practice.
- Learn how to optimize perfusion imaging studies in adult stroke.
- Recognize the nuances and imaging pearls in the evaluation of CTA in adult stroke and intracranial hemorrhage.
- Discuss the imaging features of traumatic, inflammatory and neoplastic diseases of the temporal bone.
- Appreciate the indications for advanced imaging techniques in the extracranial head and neck.
- Learn imaging pearls and nuances in the evaluation of CNS neoplasms.
- Review the state-of-the-art imaging tools that can be used for neurointerventional procedures.
- Learn key upstaging features in head and neck cancer. No special educational preparation is required for this CME activity.

SPECIAL NOTE FOR THE DISABLED: Educational Symposia (ESI) and the Eastern Neuroradiogical Society wish to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently from other individuals because of the absence of auxiliary aids and services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, please contact ESI at (800) 338-5901 or (813) 806-1000.

## 2016-2017 **ENRS Executive Committee**

#### **PRESIDENT & CHAIR**

Christopher G. Filippi, M.D. Vice Chairman of Biomedical Imaging and Translational Šcience Professor of Radiology Hofstra Northwell School of Medicine Lenox Hill Hospital New York, NY

#### VICE-PRESIDENT/PRESIDENT ELECT

Eugene Yu, M.D., FRCPC Associate Professor of Medical Imaging and Otolaryngology Head and Neck Surgery Princess Margaret Cancer Centre University of Toronto Toronto, Ontario, CANADA

#### SECRETARY

Claudia F.E. Kirsch, M.D. Division Chief Neuroradiology

Associate Professor of Neuroradiology and Otolaryngology Department of Radiology Northwell Health Hofstra Northwell School of Medicine Manhasset, NY

#### TREASURER

#### Reza Forghani, M.D., Ph.D.

Associate Chief, Department of Radiology Clinical Investigator, Segal Cancer Centre & Lady Davis Institute for Medical Research Jewish General Hospital Assistant Professor of Radiology, McGill University Montreal, Quebec, CANADA

#### **1ST PAST PRESIDENT**

Lawrence N. Tanenbaum, M.D., FACR

Vice President and Medical Director East Region Director of CT, MR and Advanced Imaging RadNet, Inc. New York, NY

#### **2ND PAST PRESIDENT**

Rona F. Woldenberg, M.D., FACR Associate Dean for Admissions Associate Professor of Radiology Hofstra North Shore LIJ School of Medicine Manhasset, NY

### 2016-2017 **ENRS Program Committee**

#### Eugene Yu, M.D., FRCPC, Chair

Associate Professor of Medical Imaging and Otolaryngology Head and Neck Surgery Princess Margaret Cancer Centre University of Toronto Toronto, Ontario, CANADA

#### ADULT BRAIN:

#### Jerrold L. Boxerman, M.D., Ph.D.

Associate Professor Department of Diagnostic Imaging Alpert Medical School of Brown University and Rhode Island Hospital Providence, RI

#### Reza Forghani, M.D., Ph.D.

Associate Chief, Department of Radiology Clinical Investigator, Segal Cancer Centre & Lady Davis Institute for Medical Research Jewish General Hospital Assistant Professor of Radiology, McGill University Montreal, Quebec, CANADĂ

#### **EMERGING MRI TECHNOLOGY:**

#### Christopher G. Filippi, M.D.

Vice Chairman of Biomedical Imaging and Translational Šcience Professor of Radiology Hofstra Northwell School of Medicine Lenox Hill Hospital New York, NY

#### Timothy M. Shepherd, M.D., Ph.D.

Assistant Professor of Neuroradiology Director of Brain Mapping Department of Radiology New York University New York, NY

#### SCIENTIFIC PRESENTATIONS:

#### Doris D.M. Lin, M.D., Ph.D.

Associate Professor of Radiology and Radiological Science Johns Hopkins University School of Medicine The Johns Hopkins Hospital Baltimore, MD

#### Chinthaka (Chris) Heyn, M.D., PhD, FRCPC

Assistant Professor of Medical Imaging Sunnybrook Health Science Centre University of Toronto Toronto, Ontario, CANADA

#### STROKE:

#### Ajay Gupta, M.D.

Associate Professor of Radiology and Neuroscience Program Director, Neuroradiology Fellowship Medical Director, Citigroup Biomedical Imaging Center Weill Cornell Medicine / NewYork-Presbyterian Hospital New York, NY

Daniel Mandell, M.D., Ph.D., FRCPC Assistant Professor of Medical Imaging University Health Network, Toronto Western Hospital University of Toronto Toronto, Ontario, CANADA

#### **PEDIATRIC IMAGING:**

Thierry A.G.M. Huisman, M.D., EQNR, FICIS Professor of Radiology, Pediatrics, Neurology and Neurosurgery Chairman Department of Imaging and Imaging Science, **JHBMC** Director Division Pediatric Radiology and Pediatric Neuroradiology, JHH Johns Hopkins Medical Institutions Baltimore, MD

#### **ER IMAGING:**

Aditya Bharatha, M.D. Assistant Professor of Medical Imaging St. Michael's Hospital

Toronto, Ontario, CANADA

#### **HEAD AND NECK:**

#### Deborah R. Shatzkes, M.D.

Professor of Radiology and Otolaryngology Hofstra Northwell School of Medicine Director of Head and Neck Imaging Lenox Hill Hospital and The New York Head & Neck Institute Northwell Health New York, NY

#### Eric S. Bartlett, M.D., MPH

Assistant Professor University of Toronto Joint Department of Medical Imaging Neuroradiology, Head and Neck Division Department of Otolaryngology, Head and Neck Surgery Princess Margaret Hospital Toronto, Ontario, CANADA

#### SPINE:

#### Amish H. Doshi, M.D.

Associate Professor of Radiology and Neurosurgery Chief, Division of Neuroradiology Program Director, Neuroradiology Program Director, Neuroradiology Associate Program Director, Radiology Residency Icahn School of Medicine at Mount Sinai New York, NY

#### Ali Noor, M.D.

Assistant Professor of Radiology Northwell Health System Northwell Hofstra School of Medicine

#### **STUMP THE STARS:**

#### Laurent Letourneau-Guillon, M.D.

Clinical Assistant Professor Notre Dame Hospital Montreal, Quebec, CANADA

#### Amy Lin, M.D.

Lecturer of Medical Imaging University of Toronto Toronto, Ontario, CANADA

#### INTERVENTIONAL NEURORADIOLOGY: Timo Krings, M.D., Ph.D, FRCPC

The David Braley and Nancy Gordon Chair in Interventional Neuroradiology Chief of Diagnostic and Interventional Neuroradiology Toronto Western Hospital & University Health Network Professor, Departments of Radiology and Surgery University of Toronto Toronto, Ontario, CANADA

## ENRS Abstract Submission: Deadline for abstract submissions June 2, 2017

Abstracts will be accepted for oral presentation in 2 categories: (1) Scientific Oral Presentation or (2) Excerpta Extraordinaire (brief presentation of interesting, educational case reports). Submissions are welcome in all major categories in Neuroradiology. Authors will be notified of the Program Committee's decision by mid-June. Authors of accepted abstracts are expected to register for the meeting and pay the meeting registration fee.

Interested candidates should submit abstract(s) accompanied by a completed abstract submission form electronically to: Doris D. M. Lin, M.D., Ph.D. at ddmlin@jhni.edu and to Chinthaka (Chris) Heyn, M.D., Ph.D., FRCPC at chris.heyn@utoronto.ca.

Visit http://www.edusymp.com/esi/2017/ENRS17/CallforAbstracts2017.pdf to access the submission form.

DISCLAIMER: Educational Symposia (ESI) and the Eastern Neuroradiogical Society as planners and presenters of this meeting, and Professional Travel as the official travel agency for this meeting, claim no liability for the acts of any suppliers or the safety of any attendees while in transit to, from, or during, this event or any optional activities. The total amount of liability, if any, for the meeting organizers is limited to a refund of the registration fee, and Professional Travel's responsibility is limited to that of an agent.

## Program Schedule (subject to change)

#### Thursday, August 24, 2017

1 hursday, Aug 9:00 – 9:45 AM	Registration and Visit Technical Exhibits
ADULT BRAIN: NI Moderators: Osamu Saka	-
9:45 – 10:15	Imaging Features of Intraventricular Neoplasms and Lesions <i>Keivan Shifteh, M.D.</i>
	SAM SESSION: BRAIN
10:15 – 10:45	Proton MR Spectroscopy Beyond NAA and Choline Otto Rapalino, M.D.
10:45 – 11:15	Multiparametric Assessment of Treatment Response Ronald L. Wolf, M.D., Ph.D.
11:15 – 11:40	Differential Diagnosis of Intra- and Parasellar Pathology Walter Kucharczyk, M.D., FRCP
11:40 – 12:05 PM	Pearls of CNS Tumor Imaging Sofia S. Haque, M.D., Dan Fistere, M.D.
12:05 – 12:30	Scientific Paper Session #1 ♦ Doris D.M. Lin, M.D., Ph.D., Chinthaka (Chris) Heyn, M.D., Ph.D., FRCPC
12:30 – 1:30	Lunch on Your Own
ADULT BRAIN: NO	
<i>Moderators: Tanya J. Ra</i> 1:30 – 1:55	th, M.D. and Reza Forghani, M.D., Ph.D. Neoplasm or Not? Jacqueline A. Bello, M.D., FACR
1:55 – 2:20	CNS Infections Doris D.M. Lin, M.D., Ph.D.
2:20 – 2:45	Demyelinating Disease: MS and Mimics Ashok Srinivasan, M.D.
2:45 – 3:10	Imaging of Cranial Nerves 9-12: A Practical Approach <i>Hillary R. Kelly, M.D.</i>
3:10 – 3:30	Clinical Uses of Functional MRI Andrei I. Holodny, M.D.
3:30 - 3:40	Fellow Presentation - IgG4 Disease Marie-Constance Lacasse, M.D.
3:40 – 4:00	Refreshment Break and Visit Technical Exhibits
	JNCTIONAL AND CUTTING-EDGE M.D. and Sapna Rawal, M.D., FRCPC
4:00 - 4:30	Advanced Diffusion Tractography for Clinical Applications Maxime Descoteaux, Ph.D.
4:30 – 5:00	Debate: Is Resting State fMRI Ready for Clinical Use Part I? Haris Sair, M.D., Steve M. Stufflebeam, M.D.
5:00 - 5:30	Debate: Is Resting State fMRI Ready for Clinical Use Part II? Haris Sair, M.D., Steve M. Stufflebeam, M.D.
5:30 - 6:00	New Quantitative MRI, the Clinical Neuroradiology Protocol Re-examined <i>Timothy M. Shepherd, M.D., Ph.D.</i>
6:00	End of Session
6:00 - 6:30	Scientific Paper Session #2 ♦ Doris D.M. Lin, M.D., Ph.D., Chinthaka (Chris) Heyn, M.D., Ph.D., FRCPC
6:30 – 8:00	Welcome Reception

### Friday, August 25, 2017

### 7:30 – 7:55 AM Continental Breakfast for Registrants and Visit Technical Exhibits

	Visit Technical Exhibits				
<b>STROKE I</b> Moderator: Richard Aviv,	MRCP, FRCR, FRCPC, DABR				
7:55 – 8:15	Challenging CT Angiograms in Ischemic Stroke Jai S. Shankar, M.D., DM				
8:15 – 8:35	Why Does This Perfusion Map Look Like This and How Can I Fix It? Amanda Murphy, M.D., Ph.D.				
8:35 – 9:00	TBD William D. Miller, M.D.				
9:00 – 9:20	Challenging CT Angiograms in Intracranial Hemorrhage Richard Aviv, M.D., MRCP, FRCR, FRCPC, DABR				
9:20 - 9:40	What is the Role of MRI in Acute Stroke? <i>Kambiz Nael, M.D.</i>				
9:40 – 9:50	Refreshment Break and Visit Technical Exhibits				
STROKE II					
Moderator: Ajay Gupta, 1	M.D.				
9:50 – 10:15	Carotid Vessel Wall Findings on Routine CT Angiography <i>Hediyeh Baradaran, M.D.</i>				
10:15 – 10:40	Incorporating Carotid Plaque Imaging into Routine Clinical MR Angiography <i>Alan Moody, MBBS, FRCP, FRCR</i>				
10:40 - 11:05	Does Perfusion Imaging Have a Role in Stroke Risk Assessment? William A. Copen, M.D.				
11:05 – 11:30	Optimal Work-Up of Angiogram Negative Subarachnoid Hemorrhage Ajay Malhotra, M.D.				
PEDIATRIC I					
Moderators: V. Michele S. Thierry A.G.M. Huisman	ilvera, M.D., Sarah Sarvis Milla, M.D., FAAP, and , M.D., EQNR, FICIS				
	SAM SESSION: PEDIATRIC				
11:30 – 12:00 PM	Congenital Abnormalities of the Pediatric CNS Aylin Tekes-Brady, M.D.				
12:00 – 12:30	Acquired Abnormalities of the Pediatric CNS Susan I. Blaser, M.D., FRCPC				
12:30 - 1:30	Lunch on Your Own				
1:30 – 2:05	Derek Harwood-Nash Lecture: Angiogenesis and Vasculogenesis - Concepts and Applications in Vascular Diseases <i>Timo Krings, M.D., Ph.D., FRCPC</i>				
2:05 – 2:25	Update on Zika-Related Injury of the Fetal and Pediatric CNS <i>Thierry A.G.M. Huisman, M.D, EQNR, FICIS.</i>				
2:25 – 2:45	Neuroimmunological Diseases of the Pediatric Spinal Cord <i>Izlem Izbudak, M.D.</i>				
<b>PEDIATRIC II</b> Moderators: Susan Palasis	, M.D., and Bruno P. Soares, M.D.				
2:45 – 3:05	Update on Neuroimaging in Pediatric Epilepsy				

3:55 – 4:15	Refreshment Break and Visit Technical Exhibits
3:30 – 3:55	Cerebellar Mutism: Quo Vadis Zoltan Patay, M.D.
3:05 – 3:30	How Does Fetal MRI Guide/Determine Fetal Treatment Options? <i>Beth Kline-Fath, M.D.</i>
2.40 0.00	Elysa Widjaja, M.D., MPH

#### Friday, August 25, 2017 (Continued)

### EMERGENCY NEUORIMAGING

Moderator: Aditya Bhar	ratha, M.D.				
4:15 - 4:40	MRI of Spinal Ligamentous Trauma Amy W. Lin, M.D.				
4:40 – 5:05	Radiographic Assessment of Non-traumatic Head and Neck Emergencies <i>Claudia F.E. Kirsch, M.D.</i>				
5:05 – 5:30	Found Down Carlos H. Torres, M.D., FRCPC				
5:30	End of Session				
5:30 - 6:00	Scientific Paper Session #3 ♦ Doris D.M. Lin, M.D., Ph.D., and Chinthaka (Chris) Heyn, M.D., Ph.D., FRCPC				
6:00 - 6:05	ASNR President's Address ♦ Jacqueline A. Bello, M.D., FACR				
6:05 – 6:30	ENRS Annual Business Meeting (Members Only) $\blacklozenge$				
Saturday, Aug	just 26, 2017				
7:00 – 7:45 AM	Continental Breakfast for Registrants and Visit Technical Exhibits				
HEAD AND NECH	<b>K IMAGING I</b> fai, M.D., FRCPC and Pejman J. Maralani, M.D.				
8:00 – 8:20	Temporal Bone Anatomy and Trauma				
8:20 - 8:40	Joshua E. Lantos, M.D. Temporal Bone Inflammatory Disease				
8:40 - 9:00	Joel D. Swartz, M.D. Temporal Bone Tumors Amy Fan Yos Iuliano, M.D.				
9:00 – 9:20	Amy Fan-Yee Juliano, M.D. Central Skull Base Anatomy and Pathology Reza Forghani, M.D., Ph.D.				
9:20 - 9:40	Posterior Skull Base Anatomy and Pathology Jared M. Steinklein, M.D.				
9:40 – 9:50	Refreshment Break and Visit Technical Exhibits				
HEAD AND NEC	K IMAGING II				
<i>Moderators: Laila Alsah</i> 9:50 – 10:15	fai, M.D., FRCPC, and Pejman J. Maralani, M.D. FESS				
10:15 – 10:40	Eric Monteiro, M.D., MSC, FRCSC Sinus Imaging Eric S. Bartlett, M.D., MPH				
10:40 - 11:05	Oral Cavity Imaging Peter M. Som, M.D., FACR, F.R.S.M.				
11:05 – 11:30	Advanced Head and Neck Imaging Girish M. Fatterpekar, MBBS, DNB, M.D.				
	SAM SESSION: HEAD & NECK				
11:30 – 12:00 PM	Orbital Imaging Mari Hagiwara, M.D.				
12:00 – 12:30	Upstaging in Head and Neck SCC Amanda S. Corey, M.D., FACR				
12:30 – 1:30	Lunch On Own				
<b>SPINE I</b> Moderators: Amish H I	Doshi, M.D., and Stephanie Y. Soohoo, M.D.				
1:30 – 1:55	Minimally Invasive Spine Surgery Sheeraz Qureshi, M.D.				
	SAM SESSION: SPINE				
1:55 – 2:25	Introduction to Myelopathy Maria J. Borja, M.D.				
2:25 – 2:55	Cervical Spine Trauma: A Classification Update <i>Harprit S. Bedi, M.D.</i>				
2:55 – 3:20	Primary Vertebral Body Tumors <i>Puneet S. Pawha, M.D.</i>				
3:20 - 3:40	Advanced Multimodal Imaging of the Spine Lawrence N. Tanenbaum, M.D., FACR				
3:40 - 3:50	Fellow Presentation: CNS Toxicities-The Unusual Suspects Daniel-Alexandre Bisson, M.D.				

#### Saturday, August 26, 2017 (Continued)

#### 3:50 - 4:00 **Refreshment Break and Visit** Teehnieel Evhibit

	rechnical Exhibits				
SPINE II					
Moderators: Ali Noor, 1	M.D., and Amit K. Aggarwal, M.D.				
4:00 - 4:20	Spine Infections: Role of the Radiologist Amish H. Doshi, M.D.				
4:20 - 4:40	Optimizing Selection and Techniques for Spina Vascular Imaging: DSA, CTA, MRA Michele H. Johnson, M.D., FACR				
4:40 – 5:00	Myelography: Current Relevance and Some Tips and Tricks Richard Silbergleit, M.D., MBA				
5:00 - 5:20	Diagnosis and Treatment of CSF Leaks Peter G. Kranz, M.D.				
5:20 – 5:30	Fellow Presentation: Machine Learning in Spine Imaging: Triaging Cord Compression <i>Nathaniel Swinburne, M.D.</i>				
5:30 - 6:30	Stump the Stars Amy W. Lin, M.D. & Laurent Letourneau-Guillon, M.D.				
6:30	End of Session				
6:30 – 9:00	Annual Gala Dinner				
Sunday, Augu	ıst 27, 2017				
7:30 – 8:00 AM	Continental Breakfast for Registrants and Visit Technical Exhibits				
<b>NEURO-INTERV</b> Moderator: Timo Kring	ENTIONAL 15, M.D., Ph.D., FRCPC				
8:00 - 8:20	The Ruptured Aneurysm: To Clip or Coil Aditya Bharatha, M.D.				
8:20 - 8:40	The Unruptured Aneurysm: Factors Determining Rupture Michele H. Johnson, M.D., FACR				
8:40 - 9:00	Brain AVMs Dheeraj Gandhi, M.D.				
9:00 – 9:20	Treated Aneurysm - When to Order Which Test <i>Marlise Santos, M.D.</i>				

- 9:40 10:00 Imaging Selection for Endovascular Stroke Management Donnatella Tampieri, M.D.
- 10:00 10:30 **Refreshment Break and Visit Technical Exhibits** Novel Neuroimaging Tools for Neurointervention *Timo Krings, M.D., Ph.D., FRCPC* 10:30 - 10:50 What Interventional Neuroradiology Can Learn from 10:50 - 11:10 Epigenetics Charles Matouk, M.D., FRCPC, FRCSC
- 11:10 11:30 Novel Endovascular Tools Vitor Mendes Pereira, M.D. **End of Program**

11:30

## Faculty

Amit K. Agarwal, M.D. Penn State Hershey Medical Center

Laila Alshafai, M.D., FRCPC University Health Network University of Toronto

Richard Aviv, MRCP, FRCR, FRCPC, DABR Sunnybrook Health Science Centre University of Toronto

Hediyeh Baradaran, M.D. New York Presbyterian-Weill Cornell Medical College

**Eric S. Bartlett, M.D., MPH** *Princess Margaret Cancer Centre University of Toronto* 

Harprit S. Bedi, M.D. Tufts University School of Medicine

Jacqueline A. Bello, M.D., FACR Albert Einstein College of Medicine Montefiore Medical Center

Aditya Bharatha, M.D. St Michael's Hospital University of Toronto

Daniel-Alexandre Bisson, M.D. University of Toronto

**Susan I. Blaser, M.D., FRCPC** *The Hospital for Sick Children University of Toronto* 

Maria J. Borja, M.D. NYU Langone Medical Center

Jerrold L. Boxerman, M.D., Ph.D. Alpert Medical School of Brown University Rhode Island Hospital

Justin Brucker, M.D. University of Rochester Medical Center

**William A. Copen, M.D.** *Massachusetts General Hospital* 

Amanda S. Corey, M.D., FACR Emory University

Maxime Descoteaux, Ph.D University of Sherbrooke

Amish H. Doshi, M.D. Icahn School of Medicine at Mount Sinai

Girish M. Fatterpekar, MBBS, DNB, M.D. NYU School of Medicine

**Christopher G. Filippi, M.D.** *Hofstra Northwell School of Medicine Lenox Hill Hospital* 

Dan Fistere, M.D. New York Presbyterian/Weill Cornell Medical College

**Reza Forghani, M.D., Ph.D.** Jewish General Hospital McGill University

**Dheeraj Gandhi, M.D.** University of Maryland School of Medicine John Hopkins School of Medicine

**Ajay Gupta, M.D.** Weill Cornell Medical College NewYork-Presbyterian Hospital

Mari Hagiwara, M.D. New York University Langone Medical Center

**Sofia S. Haque, M.D.** *Memorial Sloan Kettering Cancer Center Weill Cornell Medical College* 

Chinthaka (Chris) Heyn, M.D., Ph.D., FRCPC Sunnybrook Health Sciences Centre University of Toronto

Andrei I. Holodny, M.D. Memorial Sloan-Kettering Cancer Center Weill Medical College of Cornell University

**Thierry A.G.M. Huisman, M.D., EQNR, FICIS** Johns Hopkins Medical Institutions

**Izlem Izbudak, M.D.** Johns Hopkins Hospital Michele H. Johnson, M.D., FACR Yale University School of Medicine

**Amy Fan-Yee Juliano, M.D.** *Massachusetts Eye and Ear Infirmary Harvard Medical School* 

Hillary R. Kelly, M.D. Harvard Medical School Massachusetts General Hospital

**Claudia F.E. Kirsch, M.D.** Northwell Health Hofstra Northwell School of Medicine

Beth Kline-Fath, M.D. Cincinnati Children's Hospital Medical Center

**Steve Kralik, M.D.** Indiana University

Peter G. Kranz, M.D. Duke University Medical Center

**Timo Krings, M.D., Ph.D., FRCPC** *Toronto Western Hospital University of Toronto* 

Walter Kucharczyk, M.D., FRCP University Health Network University of Toronto

Marie-Constance Lacasse, M.D. University of Toronto

Joshua E. Lantos, M.D. Weill Cornell Medical College NewYork Presbyterian Hospital

Laurent Letourneau-Guillon, M.D. Notre-Dame Hospital Centre Hospitalier de l'Université de Montréal

**Amy W. Lin, M.D.** St Michael's Hospital University of Toronto

**Doris D.M. Lin, M.D., Ph.D.** Johns Hopkins University School of Medicine The Johns Hopkins Hospital

**Ajay Malhotra, M.D.** Yale University School of Medicine

**Daniel Mandell, M.D., Ph.D., FRCPC** *Toronto Western Hospital University of Toronto* 

**Pejman J. Maralani, M.D.** Sunnybrook Health Sciences Centre University of Toronto

Charles Matouk, M.D., FRCPC, FRCSC Yale Stroke Center Yale University School of Medicine

Sarah Sarvis Milla, M.D., FAAP Emory University Children's Healthcare of Atlanta

William D. Miller, M.D. The Ottawa Hospital

**Eric Monteiro, M.D., MSc, FRCSC** *Sinai Health System University of Toronto* 

Alan Moody, MBBS, FRCP, FRCR Sunnybrook Health Sciences Centre University of Toronto

Amanda Murphy, M.D., Ph.D. University of Toronto

Kambiz Nael, M.D. Icahn School of Medicine at Mount Sinai

Ali Noor, M.D. Northwell Hofstra School of Medicine

**Susan Palasis, M.D.** *Children's Healthcare of Atlanta* 

Zoltan Patay, M.D. St Jude Children's Research Hospital

Puneet S. Pawha, M.D. Icahn School of Medicine at Mount Sinai Vitor Mendes Pereira, M.D. Toronto Western Hospital University of Toronto

**Sheeraz Qureshi, M.D.** *Mount Sinai Medical Center* 

**Otto Rapalino, M.D.** Harvard Medical School Massachusetts General Hospital

Tanya J. Rath, M.D. University of Pittsburgh Medical Center

Sapna Rawal, M.D., FRCPC Toronto Western Hospital University of Toronto

Haris Sair, M.D. Johns Hopkins University School of Medicine

**Osamu Sakai, M.D., Ph.D.** Boston Medical Center Boston University School of Medicine

Marlise Santos, M.D. University of Ottawa The Ottawa Hospital

Jai S. Shankar, M.D., DM, NISc, FRCPC QE II Health Sciences Center Dalhousie University

**Deborah R. Shatzkes, M.D.** Hofstra Northwell School of Medicine Lenox Hill Hospital

**Timothy M. Shepherd, M.D., Ph.D.** *New York University* 

**Keivan Shifteh, M.D.** Montefiore Medical Center Albert Einstein College of Medicine

**Richard Silbergleit, M.D., MBA** William Beaumont Hospital William Beaumont School of Medicine

V. Michelle Silvera, M.D. Harvard Medical School Boston Children's Hospital

Bruno P. Soares, M.D. Johns Hopkins University School of Medicine

**Peter M. Som, M.D., FACR, F.R.S.M.** *Ichan School of Medicine at Mount Sinai* 

**Stephanie Y. Soohoo, M.D.** Long Island Jewish Medical Center

Ashok Srinivasan, M.D. University of Michigan Health System

Jared M. Steinklein, M.D. Hofstra Northwell School of Medicine Lenox Hill Hospital

**Steven M. Stufflebeam, M.D.** *Massachusetts General Hospital* 

**Joel D. Swartz, M.D.** *Germantown Imaging Associates* 

Nathaniel Swinburne, M.D. Mount Sinai Medical Center

**Donatella Tampieri, M.D.** *McGill University* 

Lawrence N. Tanenbaum, M.D., FACR *RadNet*, *Inc.* 

Aylin Tekes-Brady, M.D. Johns Hopkins Hospital

Carlos H. Torres, M.D., FRCPC University of Ottawa

Elysa Widjaja, M.D., MPH Hospital for Sick Children University of Toronto

Ronald L. Wolf, M.D., Ph.D. University of Pennsylvania School of Medicine

**Eugene Yu, M.D., FRCPC** *Princess Margaret Cancer Centre University of Toronto* 

## **Registration Information**

#### 29th Annual Meeting of

## The Eastern Neuroradiological Society

A late fee of \$75 will be added to any registration postmarked after July 24, 2017.

ENRS Member <sup>\$425.00</sup>	Yes, I plan to attend the
Non-ENRS Member <sup>3</sup> 750.00	Welcome Reception
Members-in-Training 🗅 \$250.00	Thursday, August 24, 2017
Resident Fellow Medical Student	

Yes, I plan to attend the Annual Gala Dinner...... \$25.00 Saturday, August 26, 2017

\$15<sup>.00</sup>

#### Yes, I plan to have a quest attend

- Guest / Spouse Reception / Dinner Fee ......\$175.00
- □ Children under 12 years of age .........\$75.00

## TOTAL ENCLOSED: \$\_\_\_\_\_

4 Easy Ways To Reg We Accept 💽 VISA		INTERNET ENRS.Edusymp.com	MAIL Check payable to: ENRS	c/o Educational Symposia 5620 West Sligh Avenue Tampa, Florida USA 33634-4490	FAX (800) 344-0668 (U.S. & Canada) (813) 806-1001	PHONE (800) 338-5901 (U.S. & Canada) (813) 806-1000
Name				Degree M.D. D.O. D	Ph.D. DOther	
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Address				City / State / Zip Code / Count	ry	
Phone				Email		
Card Number / Card Type:  Master Card Visa American Express Discover		Expiration Date	Security Code			
Billing Address		City / State / Zip Code / Country				

Cardholder Signature

Cancellations: Requests for refund of registration fees, less a \$75.00 administrative fee, will be made to those providing written notification of cancellation by July 24, 2017. After that date, there will be no refunds given for cancellations. Please email notice of cancellation to: <a href="https://www.lessa@edusymp.com">lsessa@edusymp.com</a> or fax to 800-344-0668.



## Toronto Marriott Downtown Eaton Centre Hotel

#### About The Hotel

Style and substance blend seamlessly at the Toronto Marriott Downtown Eaton Centre Hotel. Featuring spacious, thoughtfully designed guest rooms, modern amenities, and outstanding service befitting a luxury hotel, they set the stage for a memorable hotel stay in downtown Toronto. Hotel rooms and suites feature deluxe bedding, high-speed Wi-Fi, and an ergonomic work area. The hotel's prime location in the heart of downtown Toronto allows for easy access to many famous attractions.





How to Get There

Billy Bishop Toronto City Airport is located on Toronto Island approximately 1.6 miles south of Toronto Marriott Downtown Eaton Centre Hotel. Offering service to more than 20 cities in Canada and the U.S., with connections to more than 80 international destinations, Billy Bishop Airport is an important international gateway. The hotel does not offer shuttle service. Estimated taxi fare: \$20 CAD (one way)

Toronto Pearson International Airport is 15.5 miles northwest of the Toronto Marriott Downtown Eaton Centre Hotel and flies to 180 cities around the world. The hotel does not offer shuttle service. Estimated taxi fare: \$65 CAD (one way)

**SPACE IS LIMITED - RESERVE TODAY:** 

Visit ENRS.edusymp.com to visit the accommodations page for additional hotel information and reservation link.

Call Marriott Reservations at: (800) 228-9290 and identify that you are with the ENRS Neuroradiological to receive the group discount.

Call Professional Travel at 800-237-7230 for further assistance.

#### Group Room Rates Start At.....\$199.00 nt. CAD Rates are in Canadian Dollars.

(Single/Double Occupancy) and available 3 days prior/post meeting based on availability. Extra person sharing a room will be charged an additional \$20.

Room Preference: 1 King/ 2 Double beds (upon availability)

Local Taxes and Fees: 16%

Resort Fee: No resort fee

Hotel Cut-off Date: August 1, 2017

Deposit Policy: Reservations must be accompanied by a first night room deposit or guaranteed with a major credit card.

Cancellation Policy: All cancellations, arrival and departure date changes must be made 24 hours prior to scheduled arrival date/time to avoid a one night penalty charge in full.

Check-in is 3:00 p.m.; Check-out is 12:00 noon

Hotel: 525 Bay Street Toronto, ON M5G 2L2, CANADA Phone: (416) 597-9200

ENRS17

### THE EASTERN NEURORADIOLOGICAL SOCIETY

c/o Educational Symposia 5620 West Sligh Avenue Tampa, Florida 33634-4490



29<sup>th</sup> Annual Meeting of The Eastern Neuroradiological Society

## August 24 - 27, 2017

Toronto Marriott Downtown Eaton Centre Hotel Toronto, Ontario, CANADA

27.0 AMA PRA Category 1 Credit(s)™

For more information, visit www.enrs.org



#### Message from the Mayor

It gives me great pleasure to extend greetings and a warm welcome to everyone attending the 29th Annual Meeting of the Eastern Neuroradiological Society.

As Canada's largest city and the fourth largest in North America, Toronto is a global centre for business, finance, arts and culture and is dedicated to being a model of sustainable development. I welcome everyone to our city and encourage you to enjoy Toronto at this time of year and learn about our vibrant neighbourhoods.

On behalf of Toronto City Council, please accept my best wishes for an informative and enjoyable event.

Yours truly,

John Tory

Mayor of Toronto





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